

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A mixed liquid separating apparatus for separating a particular substance from a mixed liquid containing at least two kinds of substances ~~of which follow-rotating property is different~~, comprising:

a cylindrical outer member ~~having~~ that includes an inducing port ~~for inducing~~ configured to introduce the mixed liquid at ~~[[one]]~~ a first end of the cylindrical outer member thereof, [[and]] an expelling port ~~for expelling~~ configured to expel the separated particular substance at ~~other~~ a second end thereof of the cylindrical outer member, and an inner peripheral surface configured to adhere to the particular substance with a stronger adhesion force than to other substances in the mixed liquid;

a rod-shaped inner member disposed coaxially with said outer member so as to be relatively rotatable relative to the cylindrical outer member, said inner member including an outer peripheral surface that is configured to adhere to the particular substance with a stronger adhesion force than to other substances in the mixed liquid thereto;

a driving ~~means for~~ unit configured to rotate ~~relatively rotating~~ said outer member and said inner member relative to each other; and

at least one of ~~[[an]]~~ the inner peripheral surface of said outer member and ~~[[an]]~~ the outer peripheral surface of said inner member ~~having~~ including a spiral guiding wall ~~for guiding~~ that is configured to guide the particular substance from the ~~[[one]]~~ first end to the ~~[[other]]~~ second end, by ~~[[the]]~~ relative rotation between said outer member and said inner member,

wherein the particular substance is separated from the mixed liquid when the particular substance is fed ~~during feeding~~ to the ~~[[other]]~~ second end of the cylindrical outer member along the spiral guiding wall surface by ~~[[the]]~~ relative rotation between said outer member and said inner member.

Claim 2 (Canceled).

Claim 3 (Previously Presented): A mixed liquid separating apparatus according to claim 1, wherein the inner peripheral surface of said outer member has a cylindrical shape, and said inner member has the spiral guiding surface on the outer peripheral surface thereof.

Claim 4 (Previously Presented): A mixed liquid separating apparatus according to claim 3, wherein the outer peripheral surface of said inner member is constructed by a male screw.

Claim 5 (Currently Amended): A mixed liquid separating apparatus according to claim 1, wherein said driving ~~means~~ unit holds said outer member to be stationary, and rotates said inner member.

Claim 6 (Currently Amended): A mixed liquid separating apparatus according to claim 1, wherein said outer member further includes a discharging ~~means having~~ unit that includes a particular substance receiving portion and a particular substance discharging portion, the particular substance receiving portion being formed at ~~[[other]]~~ the second end of

the cylindrical outer member provided with the expelling port for receiving the particular substance expelled from the expelling port, the particular substance discharging portion being formed at the particular substance receiving portion for discharging the particular substance accumulated therein.

Claim 7 (Original): A mixed liquid separating apparatus according to claim 6, wherein the particular substance discharging portion is a discharging port opened in the gravity acting direction.

Claim 8 (Currently Amended): A mixed liquid separating apparatus according to claim 6, wherein said discharging ~~means~~ unit further ~~including~~ includes a transferring ~~means~~ for transferring unit that is configured to transfer the particular substance accumulated in the particular substance receiving portion to the discharging port.

Claim 9 (Currently Amended): A mixed liquid separating apparatus according to claim 8, wherein said transferring ~~means~~ unit is a plate fixed to said inner member, the plate rotating relative to the particular substance receiving portion by the relative rotation between said outer member and said inner member to push and gather the particular substance accumulated to the particular substance receiving portion to the particular substance discharging portion.

Claim 10 (Previously Presented): A mixed liquid separating apparatus according to claim 1, wherein the mixed liquid contains a liquid of low viscosity, and a liquid of high viscosity corresponding to the particular substance.

Claim 11 (Original): A mixed liquid separating apparatus according to claim 10, wherein the low viscosity liquid is a coolant, and the high viscosity liquid is a flown-up oil flown up on the coolant.

Claim 12 (Previously Presented): A mixed liquid separating apparatus according to claim 1, wherein the mixed liquid is a sludge containing the metal swarf corresponding to the particular substance.

Claim 13 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface of the inner member is formed into a nap-shaped convex or concave surface.

Claim 14 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface of the inner member is formed into a brush-shaped convex or concave surface.

Claim 15 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral

surface of the inner member is a hydrophilic surface configured to adhere to the particular substance with a stronger adhesion force than to other substances in the mixed liquid.

Claim 16 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface of the inner member is a hydrophobic surface configured to adhere to the particular substance with a stronger adhesion force than to other substances in the mixed liquid.

Claim 17 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface of the inner member is a magnetic surface configured to adhere to the particular substance with a stronger magnetic force than to other substances in the mixed liquid.

Claim 18 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface is configured to chemically adhere to the particular substance with a stronger force than to other substances in the mixed liquid.

Claim 19 (New): A mixed liquid separating apparatus according to claim 1, wherein at least one of the inner peripheral surface of the outer member and the outer peripheral surface is configured to adhere to the particular substance with a stronger frictional force than to other substances in the mixed liquid.